

1645



TEC CENTER 1600/2900

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/040,497

DATE: 02/08/2002

TIME: 08:43:18

Input Set : N:\Crf3\RULE60\10040497.txt

Output Set: N:\CRF3\02082002\J040497.raw

#2

## SEQUENCE LISTING

ENTERED

2 (1) GENERAL INFORMATION:

3 (i) APPLICANT: GOLD, LARRY

4 TUEK, CRAIG

5 (ii) TITLE OF INVENTION: METHODS OF PRODUCING

6 NUCLEIC ACID LIGANDS

7 (iii) NUMBER OF SEQUENCES: 83

8 (iv) CORRESPONDENCE ADDRESS:

9 (A) ADDRESSEE: Swanson & Bratschun, L.L.C.

10 (B) STREET: 8400 E. Prentice Avenue, Suite 200

11 (C) CITY: Englewood

12 (D) STATE: Colorado

13 (E) COUNTRY: USA

14 (F) ZIP: 80111

15 (v) COMPUTER READABLE FORM:

16 (A) MEDIUM TYPE: Diskette, 3 1/5 inch, 1.44 MB

17 (B) COMPUTER: IBM compatible

18 (C) OPERATING SYSTEM: MS-DOS

19 (D) SOFTWARE: WordPerfect 8.0

20 (vi) CURRENT APPLICATION DATA:

C--> 21 (A) APPLICATION NUMBER: US/10/040,497

C--> 22 (B) FILING DATE: 07-Jan-2002

C--> 23 (vii) PRIOR APPLICATION DATA:

24 (A) APPLICATION NUMBER: 09/165,616

25 (B) FILING DATE: 02-OCTOBER-1998

28 (A) APPLICATION NUMBER: 08/748,697

29 (B) FILING DATE: 13-NOVEMBER-1996

31 (A) APPLICATION NUMBER: 08/442,062

32 (B) FILING DATE: 16-MAY-1995

34 (A) APPLICATION NUMBER: 07/964,624

35 (B) FILING DATE: 21-OCTOBER-1992

37 (A) APPLICATION NUMBER: 07/714,131

38 (B) FILING DATE: 10-JUNE-1991

40 (A) APPLICATION NUMBER: 07/536,428

41 (B) FILING DATE: 11-JUNE-1990

42 (viii) ATTORNEY/AGENT INFORMATION:

43 (A) NAME: Barry J. Swanson

44 (B) REGISTRATION NUMBER: 33,215

45 (C) REFERENCE/DOCKET NUMBER: NEX05/DC-CON

46 (ix) TELECOMMUNICATION INFORMATION:

47 (A) TELEPHONE: (303) 793-3333

48 (B) TELEFAX: (303) 793-3433

49 (2) INFORMATION FOR SEQ ID NO: 1:

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```

50      (i) SEQUENCE CHARACTERISTICS:
51          (A) LENGTH: 21 base pairs
52          (B) TYPE: nucleic acid
53          (C) STRANDEDNESS: single
54          (D) TOPOLOGY: linear
55      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
56 UUCCGNNNNN NNNCGGAAAA A                                21
58 (2) INFORMATION FOR SEQ ID NO: 2:
59      (i) SEQUENCE CHARACTERISTICS:
60          (A) LENGTH: 24 base pairs
61          (B) TYPE: nucleic acid
62          (C) STRANDEDNESS: single
63          (D) TOPOLOGY: linear
64      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
65 UCCGNNNNNN NNCGGGAAAA NNNN                                24
67 (2) INFORMATION FOR SEQ ID NO: 3:
68      (i) SEQUENCE CHARACTERISTICS:
69          (A) LENGTH: 27 base pairs
70          (B) TYPE: nucleic acid
71          (C) STRANDEDNESS: single
72          (D) TOPOLOGY: linear
73      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
74 NNUUCCGNNN NNNNNCGGGA AAANNNN                                27
76 (2) INFORMATION FOR SEQ ID NO: 4:
77      (i) SEQUENCE CHARACTERISTICS:
78          (A) LENGTH: 57 base pairs
79          (B) TYPE: nucleic acid
80          (C) STRANDEDNESS: single
81          (D) TOPOLOGY: linear
82      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
83 GGUCCGAAGU GCAACGGGAA AAUGCACUAU GAAAGAAUUU UAUAUCUCUA    50
84 UUGAAAC                                                    57
86 (2) INFORMATION FOR SEQ ID NO: 5:
87      (i) SEQUENCE CHARACTERISTICS:
88          (A) LENGTH: 31 base pairs
89          (B) TYPE: nucleic acid
90          (C) STRANDEDNESS: single
91          (D) TOPOLOGY: linear
92      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
93 CCGGATCCGT TTCAATAGAG ATATAAAATT C                        31
95 (2) INFORMATION FOR SEQ ID NO: 6:
96      (i) SEQUENCE CHARACTERISTICS:
97          (A) LENGTH: 55 base pairs
98          (B) TYPE: nucleic acid
99          (C) STRANDEDNESS: single
100         (D) TOPOLOGY: linear
101      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
102 GGGCAAGCTT TAATACGACT CACTATAGGT CCGAAGTGCA ACGGGAAAAAT    50
103 GCACT                                                        55

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105 (2) INFORMATION FOR SEQ ID NO: 7:
106     (i) SEQUENCE CHARACTERISTICS:
107         (A) LENGTH: 31 base pairs
108         (B) TYPE: nucleic acid
109         (C) STRANDEDNESS: single
110         (D) TOPOLOGY: linear
111     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
112 GTTCAATAG AGATATAAAA TTCTTTCATA G                               31
114 (2) INFORMATION FOR SEQ ID NO: 8:
115     (i) SEQUENCE CHARACTERISTICS:
116         (A) LENGTH: 89 base pairs
117         (B) TYPE: nucleic acid
118         (C) STRANDEDNESS: single
119         (D) TOPOLOGY: linear
120     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
121 GTTCAATAG AGATATAAAA TTCTTTCATA GNNNNNNNNNN NNNNNNNNNN       50
122 NNNNNNNNNN NAGTGCATTT TCCCGTTGCA CTTCCGACC                   89
124 (2) INFORMATION FOR SEQ ID NO: 9:
125     (i) SEQUENCE CHARACTERISTICS:
126         (A) LENGTH: 85 base pairs
127         (B) TYPE: nucleic acid
128         (C) STRANDEDNESS: single
129         (D) TOPOLOGY: linear
130     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
131 CCCGGATCCT CTTTACCTCT GTGTGAGATA CAGAGTCCAC AAACGTGTTC       50
132 TCAATGCACC CGGTCGGAAG GCCATCAATA GTCCC                       85
134 (2) INFORMATION FOR SEQ ID NO: 10:
135     (i) SEQUENCE CHARACTERISTICS:
136         (A) LENGTH: 49 base pairs
137         (B) TYPE: nucleic acid
138         (C) STRANDEDNESS: single
139         (D) TOPOLOGY: linear
140     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
141 CCGAAGCTTA ATACGACTCA CTATAGGGAC TATTGATGGC CTTCCGACC       49
143 (2) INFORMATION FOR SEQ ID NO: 11:
144     (i) SEQUENCE CHARACTERISTICS:
145         (A) LENGTH: 25 base pairs
146         (B) TYPE: nucleic acid
147         (C) STRANDEDNESS: single
148         (D) TOPOLOGY: linear
149     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
150 CCCGGATCCT CTTTACCTCT GTGTG                                   25
152 (2) INFORMATION FOR SEQ ID NO: 12:
153     (i) SEQUENCE CHARACTERISTICS:
154         (A) LENGTH: 23 base pairs
155         (B) TYPE: nucleic acid
156         (C) STRANDEDNESS: single
157         (D) TOPOLOGY: linear
158     (ix) FEATURE:

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159 (D) OTHER INFORMATION: N's at  
160 positions 9-11 are base  
161 paired with N's at positions 21-23  
162 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
163 UCCSANNNNN NASGGGANAA NNN 23  
165 (2) INFORMATION FOR SEQ ID NO: 13:  
166 (i) SEQUENCE CHARACTERISTICS:  
167 (A) LENGTH: 66 base pairs  
168 (B) TYPE: nucleic acid  
169 (C) STRANDEDNESS: single  
170 (D) TOPOLOGY: linear  
W--> 171 (ii) MOLECULE TYPE: RNA  
172 (ix) FEATURE:  
173 (D) OTHER INFORMATION: N at  
174 position 29-36 can have a  
175 variable length of 6-8 bases  
176 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
177 GGUCCGAAGU GCAACGGGGA AAUGCACNN NNNNNNNNNN NNNNNNNNNN 50  
178 NNNNNNNNNN NNNNNN 66  
180 (2) INFORMATION FOR SEQ ID NO: 14:  
181 (i) SEQUENCE CHARACTERISTICS:  
182 (A) LENGTH: 88 base pairs  
183 (B) TYPE: nucleic acid  
184 (C) STRANDEDNESS: single  
185 (D) TOPOLOGY: linear  
186 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:  
187 GGUCCGAAGU GCAACGGGAA AAUGCACUAG CUCGUGAGGC UUUCGUGCUG 50  
188 UUCCGAGCUA UGAAAGAAUU UUAUAUCUCU AUUGAAAC 88  
190 (2) INFORMATION FOR SEQ ID NO: 15:  
191 (i) SEQUENCE CHARACTERISTICS:  
192 (A) LENGTH: 87 base pairs  
193 (B) TYPE: nucleic acid  
194 (C) STRANDEDNESS: single  
195 (D) TOPOLOGY: linear  
196 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:  
197 GGUCCGAAGU GCAACGGGAA AAUGCACUGC AUGUGAGGCG GUAACGCUGU 50  
198 UCCGUGCUAU GAAAGAAUUU UUAUAUCUCU UUGAAAC 87  
200 (2) INFORMATION FOR SEQ ID NO: 16:  
201 (i) SEQUENCE CHARACTERISTICS:  
202 (A) LENGTH: 89 base pairs  
203 (B) TYPE: nucleic acid  
204 (C) STRANDEDNESS: single  
205 (D) TOPOLOGY: linear  
206 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
207 GGUCCGAAGU GCAACGGGAA AAUGCACUGG UGAGUGAGGC CGAUGCUGUU 50  
208 CCUCGCCGCU AUGAAAGAAU UUAUAUCUC UAUUGAAAC 89  
210 (2) INFORMATION FOR SEQ ID NO: 17:  
211 (i) SEQUENCE CHARACTERISTICS:  
212 (A) LENGTH: 91 base pairs

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213         (B) TYPE: nucleic acid
214         (C) STRANDEDNESS: single
215         (D) TOPOLOGY: linear
216         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
217 GGUCCGAAGU GCAACGGGAA AAUGCACUGA CGCGCGAGGU CUUGGUACUG      50
218 UUCCGUGGCU CUAUGAAAGA AUUUUAUUAUC UCUAUUGAAA C              91
220 (2) INFORMATION FOR SEQ ID NO: 18:
221     (i) SEQUENCE CHARACTERISTICS:
222         (A) LENGTH: 89 base pairs
223         (B) TYPE: nucleic acid
224         (C) STRANDEDNESS: single
225         (D) TOPOLOGY: linear
226     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
227 GGUCCGAAGU GCAACGGGAA AAUGCACUCU GGGUGAGACU UGAAGUCGUU      50
228 CCCAGGUCU AUGAAAGAAU UUAUAUCUC UAUUGAAAC                    89
230 (2) INFORMATION FOR SEQ ID NO: 19:
231     (i) SEQUENCE CHARACTERISTICS:
232         (A) LENGTH: 89 base pairs
233         (B) TYPE: nucleic acid
234         (C) STRANDEDNESS: single
235         (D) TOPOLOGY: linear
236     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
237 GGUCCGAAGU GCAACGGGAA AAUGCACUCC CGGUGAAGCA UAAUGCUGUU      50
238 CCUGGGGUCU AUGAAAGAAU UUAUAUCUC UAUUGAAAC                    89
240 (2) INFORMATION FOR SEQ ID NO: 20:
241     (i) SEQUENCE CHARACTERISTICS:
242         (A) LENGTH: 89 base pairs
243         (B) TYPE: nucleic acid
244         (C) STRANDEDNESS: single
245         (D) TOPOLOGY: linear
246     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
247 GGUCCGAAGU GCAACGGGAA AAUGCACUGG GAGUGAGGUU CCCCGUCCU      50
248 CCCGACCCU AUGAAAGAAU UUAUAUCUC UAUUGAAAC                    89
250 (2) INFORMATION FOR SEQ ID NO: 21:
251     (i) SEQUENCE CHARACTERISTICS:
252         (A) LENGTH: 89 base pairs
253         (B) TYPE: nucleic acid
254         (C) STRANDEDNESS: single
255         (D) TOPOLOGY: linear
256     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
257 GGUCCGAAGU GCAACGGGAA AAUGCACUAG CGAUGUGAAG UGAUACUGGU      50
258 CCAUCGUGCU AUGAAAGAAU UUAUAUCUC UAUUGAAAC                    89
260 (2) INFORMATION FOR SEQ ID NO: 22:
261     (i) SEQUENCE CHARACTERISTICS:
262         (A) LENGTH: 88 base pairs
263         (B) TYPE: nucleic acid
264         (C) STRANDEDNESS: single
265         (D) TOPOLOGY: linear
266     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

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## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/040,497

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TIME: 08:43:19

Input Set : N:\Crif3\RULE60\10040497.txt

Output Set: N:\CRF3\02082002\J040497.raw

L:21 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:22 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:27 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]  
L:171 M:220 C: Keyword misspelled or invalid format, [(ii) MOLECULE TYPE:]  
L:171 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=13  
L:412 M:220 C: Keyword misspelled or invalid format, [(ii) MOLECULE TYPE:]  
L:412 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=36  
L:426 M:220 C: Keyword misspelled or invalid format, [(ii) MOLECULE TYPE:]  
L:426 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=37  
L:437 M:220 C: Keyword misspelled or invalid format, [(ii) MOLECULE TYPE:]  
L:437 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=38  
L:459 M:220 C: Keyword misspelled or invalid format, [(ii) MOLECULE TYPE:]  
L:459 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=39  
L:909 M:220 C: Keyword misspelled or invalid format, [(ii) MOLECULE TYPE:]  
L:909 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=83